Water Sustainability in Silicon Valley: A Vision for the Future

April 26, 2004



City of San Jose Water Policy Goals

- A healthy, reliable and adequate supply of high quality water;
- Efficient, economic and sustainable use of water supplies;
- High-quality wastewater discharge into San Francisco Bay;
- Protection of public health and safety;
- Preservation and enhancement of habitats, ecosystems and endangered species; and
- Protection of surface and groundwater resources.

Strategic Policy Directions

- Water Supply & Use
- Pollution Prevention
- Wastewater Treatment
- Ecosystem Protection
- Interagency Cooperation
- Education & Involvement
- Advocacy



Key City Programs

Water Supply & Use

- Municipal Water System
- South Bay Water Recycling
- Water Conservation

Pollution Prevention

- Industrial Pretreatment
- Stormwater/Urban Runoff Management
- Wastewater Treatment



Key City Programs

Ecosystem Protection

- Salt ponds and wetlands restoration planning and implementation
- Watershed Management Initiative
- City Policies for Sustainability

Interagency Cooperation

- Countywide Urban Runoff Program
- Water Resources Protection Collaborative
- Collaborations with the Water District
- Regional Initiatives



Municipal Water System

- Established 1961
- 4th Largest Retailer in Santa Clara Co
- Population Served: 102,000
- Potable Water: 7,000 million gallons/yr
- Industrial/Commercial Use: 35%
- Recycled Water: 650 million gallons/yr
- Annual Revenues: \$19,200,000

South Bay Water Recycling

- Goal: Reduce freshwater discharges into sensitive salt marshes
- Investment: \$250M to date
- Results:
 - -60 miles of pipeline
 - -450 customers
 - –13 million gallons per day average reuse

South Bay Water Recycling

Benefits:

- Water supply for industrial operations, agriculture and landscape maintenance
- Reduced demands on potable water supplies.

Next steps:

- SBWR Collaborative on:
 - Extension of the pipeline
 - Long term operations/maintenance of system
 - Advanced water treatment

Water Conservation

- 2003 Average Dry Weather Flow: 100.1 MGD
- Indoor water conservation programs co-funded with the Water District.
- Research on toilet flappers to reduce leaks
- Financial and technical support for business /industrial water conservation projects
- Outdoor water conservation program for lowincome San Jose residents



San Jose Santa Clara Wastewater Treatment Plant

- Serves 1.5 Million residents
- Serves 613,000 jobs
- Serves 450 industrial dischargers
- Plant Influent: 116.7 MGD
- Plant 2003 Dry Weather Discharge to the Bay: 100.1 MGD



South Bay Salt Pond Restoration Effort

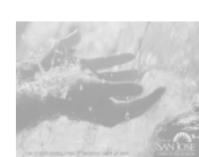
- Active involvement
- Sharing of data collected as part of our operations
- Participating in the stakeholder forum and workgroups.
- Potential use of recycled water for dilution ??

Stakeholder Processes / Regional Coordination

- Watershed Management Initiative
- Countywide Urban Runoff Management
- City/District Coordination Process
- Bay Area Clean Water Agencies
- Regional Monitoring Program
- Bay Area Stormwater Management Agencies
- Bay Area Pollution Prevention Group

Key City Policies for Sustainability

- Clean Bay Strategy
- Riparian Corridor Policy
- Sustainable City Policy
- General Plan
- Green Building Policies
- Water Policy
- Watershed Action Plan



Discussion

Questions/Answers

